

Applicant : Daniel J. Vavrick
Serial No. : 10/658,128
Filed : 09 SEPT 2003
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Attorney Docket No.: NC 84208

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Amendments to the Claims:

The following listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A composite reactive material comprising:
a metal foam having a void volume; and
a halogenated polymer imbibed into said void volume;
wherein said metal foam and said halogenated polymer together are said reactive material.
2. (Previously Amended) The reactive material of claim 1, wherein the said metal foam comprises a metal selected from the group consisting of molybdenum, osmium, titanium, boron, manganese, magnesium, aluminum, nickel, mixtures of the foregoing, and an alloy comprising at least one or more of molybdenum, osmium, titanium, boron, manganese, magnesium, aluminum, and nickel.
3. (Previously Amended) The reactive material of claim 1, wherein the said metal foam comprises aluminum.
4. (Previously Amended) The reactive material of claim 1, wherein the said metal foam consists essentially of aluminum.
5. (Currently Amended) The reactive material of claim 1, wherein the said polymer is at least partially fluorinated.
6. (Currently Amended) The reactive material of claim 1, wherein the said polymer is formed from at least one or more monomers selected from the group consisting of fluoroalkyl esters of acrylic acid, tetrafluoroethylene, chlorotrifluoroethylene, dichlorodifluoroethylene, hexafluoropropylene, vinylidene dichloride, and vinylidene difluoride.
7. (Previously Amended) The reactive material of claim 1, wherein the said polymer

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comprises polytetrafluoroethylene.

8. (Cancelled)

9. (Currently Amended) The reactive material of claim 31, wherein the said particulate material includes finely divided metal particles that comprise aluminum.

10. (Cancelled)

11. (Currently Amended) The reactive material of claim 31, wherein the said particulate material produces a thermite mixture that comprises aluminum particles and iron oxide particles.

12. (Original) Ordnance comprising the reactive material of claim 1.

13-28. (Cancelled)

29. (Currently Amended) The reactive material of claim 31, wherein said particulate material disposed within said polymer is selected to produce a thermite.

30. (Currently Amended) The reactive material of claim 31, wherein said metal foam consists essentially of aluminum, said polymer consists essentially of polytetrafluoroethylene, and said particulate material disposed within said polymer comprises aluminum and iron oxide.

31. (New) The reactive material of claim 1 further comprising a particulate material disposed within said polymer, said particulate material selected from the group consisting of finely divided metal particles, finely divided metal oxide particles, and mixtures of finely divided metal particles and finely divided metal oxide particles.

32. (New) The reactive material of claim 1, wherein said metal foam constitutes from about 15% to about 35% of said material and said polymer constitutes from about 65% to about 85% of said material.